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Convairiety

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San Diego EDITION

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SAN DIEGO, POMONA AND ANTELOPE VALLEY, CALIFORNIA DAINGERFIELD AND FORT WORTH, TEXAS

SD and Astro Divisions Safest in U.S.

'Pioneer Settlers' Move Into New Quarters at Plant on Kearny Mesa

Chances of an "Open House" at Convair Astronautics' new Kearny Mesa plant site by "early summer" continue good as an on-schedule transfer of employees into the new plant continues.

Open House plans are being given every consideration in light of close security measures, production schedules and transfers of employees and equipment, J. R. Dempsey, Astro manager, has indicated.

"We would like particularly to show our new facility to the families of employees before production there gets under way," Dempsey said.

Personnel began to occupy the new plant early this month and an estimated 2,000-plus employees will be working there by the end of March. Additional transfers will continue through May as the bulk of non-factory personnel is relocated. Around June 1 direct factory personnel will begin to move.

Meanwhile, equipment, facilities and stocks will be transferred to provide a continued "without interruption" production schedule on the Atlas intercontinental ballistic missile program.

J. K. Davant, Astro's manager of industrial engineering, indicated this week that movements of employees and equipment to the new site had progressed "without a hitch."

"Close planning among departments moving and those handling the move has made it possible for employees to go to work at the new site with a minimum of inconvenience," Davant said.

One quick change in plans was effected when the dining area at the new cafeteria was not available to early movers. Temporary food service was established in the west wing of Bldg. 4 to operate until the cafeteria is in operation.

Employee services this week (March 17) set up operations in temporary quarters on the first floor of Bldg. 1. All employee functions such as insurance, recreation, lost and found, etc., will be available there. The office will also serve as a temporary **Convairiety** news office.

J. M. Mernik, Astro guard chief, has suggested motorists approaching the plant from the south may avoid a traffic control point at the intersection of Clairemont Mesa Blvd. and Highway 395 by taking the Aero Drive cut-off to Kearny Villa Rd. and thence to plant parking lots.

Traffic control will be necessary at this point during peak use hours until the new overpass is completed.

Astro Future Will be Told

The first Convair Astronautics "family night" has been set for March 26 at the Base Theater, Marine Corps Recruit Depot. Entrance will be via Gates 4 and 5 off Pacific Highway.

J. R. Dempsey, Astro manager, W. L. Young, operations manager, and Mortimer Rosenbaum, chief engineer, will give illustrated talks on Astronautics, past, present and future.

Employees whose last names start with "A" through "D" will attend at 6 p.m., while those from "E" through "K" will attend at 8 p.m. A subsequent night for the remainder has been tentatively set for April 2. Night shift employees will attend a special gathering at 1 p.m. March 27 at the same location.

Astronautics Convair "ID" cards will be necessary for admission.

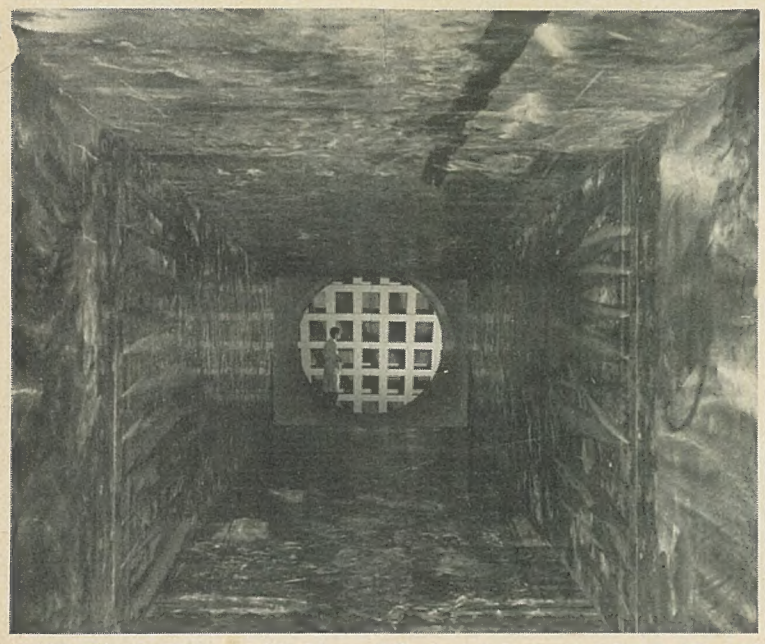
BLDGS. 5, 51 MOVES SLATED TO BEGIN DURING EARLY APRIL

First personnel moves involved in the $2½ million rehabilitation of Convair San Diego's two engineering buildings (5 and 51) are now set for around April 11.

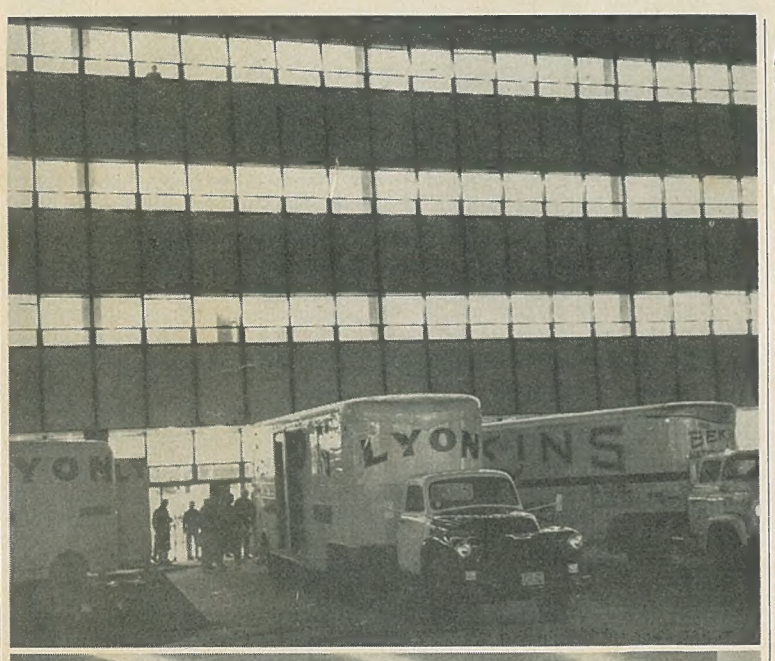
Customer services department will begin shifting approximately 500 persons on that date. They are expected to vacate areas on the second and third floors of Bldg. 5 and at Westgate, taking up temporary quarters on the mezzanine of Bldg. 4.

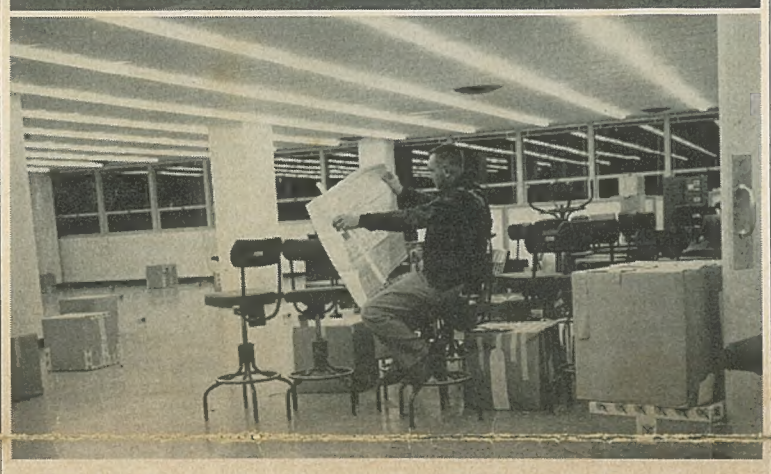
Ultimately, almost 6,000 persons will be moved once (and some twice) as renovation proceeds. The majority will shift to other locations within these build-

(Continued on Page 2)



UP TO MACH 5—Highly polished stainless steel lines sides of new high speed wind tunnel demonstrated today for first time. It allows winds to flow past test models at speeds up to five times that of sound.





EXODUS—Movers had a workout on weekend of March 8-9. They transferred desks, file cabinets and equipment from Plant 1 to new Astronautics plant, paving way for 603 persons who reported for work at new plant Monday, March 10. In lower picture is Ronnie Moll of Astro Dept. 181, industrial engineering member of advance move group, studying layout on sixth floor of Bldg. 3 at Kearny plant.

Top Men Praise Divisions For 1957 Safety Record

"When one considers that these records mean an avoidance of many hours of pain and suffering, the results are in many ways more satisfying than any other type of success.

"It is an outstanding achievement on the part of both San Diego operations."

Earl D. Johnson
Executive Vice President
General Dynamics

* * *

"A safe aircraft factory is an efficient aircraft factory, and I am more than gratified to learn that the San Diego and Astronautics Divisions of Convair were the safest in the entire country in 1957.

"This is an outstanding achievement and I extend my warm congratulations to both divisions and to all the thousands of careful Convair men and women who made it possible."

Joseph T. McNarney
President of Convair

* * *

"I would like to congratulate every employee for his or her part in helping the San Diego Division become the safest aircraft facility in the nation . . . One of our most important goals is to operate our plants without injury to a single person. Our record has been outstanding, but I hope all Convair employees will continue to be more and more safety conscious, and that we can improve our safety record even more, year after year."

B. F. Coggan
SD Division manager

* * *

"Astronautics Division is the most 'junior' aircraft or missile facility in national competition for safety honors. In fact, 1957 was our first full year in contest with the other big aircraft and missile builders of the nation.

"The fact that we outdistanced all of them—all except a sister division of Convair—seems to me a tremendous accomplishment. I am proud of what you have done."

J. R. Dempsey
Astronautics Division manager

★ ★ ★

Safety engineers gave "task force" tactics the main credit for making San Diego and Astronautics Divisions the safest in the nation during 1957.

"Although the whole 'team,' including those on the 'bench,' can take pride in the feat, there are a few key factors that we feel are primarily responsible for this remarkable performance," M. C. Val Dez and Jack Garrison, chief safety engineers for San Diego and Astronautics, commented jointly.

"These amount to the combination of enthusiastic support from management for the safety program, the untiring vigilance of supervision, and the round-the-clock support from the hundreds of Workmen's Safety Committee members who served unselfishly during the year."

Val Dez and Garrison reported that although Convair divisions always are near the top in the national standings, this is the first time Convair has placed "one, two."

End 1957 'One, Two' In Nation

San Diego Division was the safest "complete aircraft manufacturing" facility in the entire United States during 1957, and Astronautics Division was in second place in national standings.

Confirmation of the outstanding accomplishment came last week in figures released by the National Safety Council.

San Diego Division's disabling accident frequency rate was .33 for the entire year. This means, in effect, that the division worked three million safe manhours for every disabling accident in 1957. Astronautics' frequency rate was .46 which means that the division worked more than two million safe manhours for every lost-time accident.

In third place behind the two Convair divisions was North American Aviation of Fresno, Calif. with a rate of .73. The average rate for all "complete aircraft manufacturers" reporting was 2.18. Thus, SD Division during the year was more than six times "safer" than the national average, and Astronautics was more than four times.

During 1957 Convair San Diego worked 63,668,741 manhours, with 21 disabling accidents resulting in 825 days lost time. Astronautics for the year worked 17,226,602 manhours, with eight accidents that accounted for 141 days lost time.

Thus far in 1958 SD Division is maintaining a safety record closely paralleling that of last year with a frequency rate of .32. Astronautics is up with a rate of .86 at the end of February.

★ ★ ★

G. C. Stewart, executive vice president of the National Safety

(Continued on Page 2)

McLaughlin Appointed Factory Manager For San Diego Plant 2

The naming of a new factory manager, plus re-assignment for two others was announced this month at Convair San Diego by A. W. Morgan, assistant manager-operations.

E. O. Johnson, former Plant 1 factory manager, becomes night manager.

F. H. McLaughlin

P. G. Osborn, Plant 2 factory manager since 1954, takes over a similar post at Plant 1.

F. H. McLaughlin, formerly superintendent of primary and final assembly is elevated to Plant 2 factory manager.

All have been filling these positions for some time in "acting" capacities.

Other phases of these shifts will see C. F. McCabe, for some time night manager, returning to engineering (he was assistant chief engineer) as a staff specialist and Emmett L. Williams, Plant 2 night superintendent, assuming McLaughlin's former duties.

McLaughlin worked for Consolidated Aircraft in 1934 at Buffalo, then rejoined the company after its move to San Diego. He has held numerous supervisory factory positions,

SD and Astro Safest in U.S.

(Continued from Page 1)

Council, will attend San Diego Division's annual safety honors night Saturday (March 22) to present the division with a plaque for placing first in the nation among complete airframe builders in 1957.

B. F. Coggan, division manager, will be on hand to receive the trophy, as well as an "Award of Honor." Coggan, in turn, will present the division's top safety award to T. F. McAleer III, chief of manufacturing control, Plant 1, for that department's outstanding efforts in 1957. The annual housekeeping trophy will go to plant engineering, represented by H. A. Smith, chief plant engineer.

The honors night will be in the Poco Room of Town and Country.

* * *

Astronautics Division held its second annual safety honors night March 7 in Haynes Streamliner, presided over by M. V. Wisdom, Astro manager of industrial relations. Guests numbered 48.

J. R. Dempsey, division manager, presented Astro's top safety and good housekeeping award for 1957 to John Ruzich, chief of stores and traffic, for that department's last year's record. Harold Miller accepted the good housekeeping trophy on behalf of Dept. 771.

Material Handling Guide Distributed

Distribution was being completed this week of more than 10,000 special "Material Handling Guides" prepared for use by Convair Astronautics.

The 24-page booklet is the combined work of industrial engineering, quality control and training. It contains timely and helpful hints about handling of materials used in missile production. Item costs and replacement times are also discussed.

Receiving copies were supervisors and personnel of all departments charged with the handling of materials. Industrial engineering area engineers are responsible for supplying copies to their respective areas.

Atlas Subcontractor Named 'Outstanding'

Pacific Automation Products, Inc., the Glendale firm that designs and builds electronic cabling for Atlas test and launching sites, has been named "Outstanding Small Business for 1958."

The award was presented to president Frank Gard Jameson at the 12th annual Southern California Business Show in Los Angeles.

The firm supplies cables for Convair Astronautics, builders of the Atlas ICBM.

"More than 20,000 cables with a 100 per cent record of reliability have been supplied and never has a test firing or launching been aborted because of cable failure," Jameson stated.

SD Associates Honor Veteran Engineer

Over 100 Convair San Diego friends of Etienne Dormoy, veteran aviation figure and Convair employee, gathered at San Diego's Admiral Kidd Club March 5 for a farewell party in honor of his retirement.

C. F. McCabe served as master of ceremonies. Dormoy was presented wood working equipment as a gift.

ASTRO'S SAFEST—Annual award dinner staged by Astronautics March 7 honored outstanding safety accomplishments for past year. Harold Miller (Dept. 771), seated at far left, accepted housekeeping trophy for his department, while John Ruzich (Dept. 214), standing, accepted top safety and housekeeping award of year for his.

Public Demonstration Staged To Show Off New Wind Tunnel

Convair SD today (March 19) staged a public demonstration of its new $3½ million high speed wind tunnel, latest addition to a multi-million dollar research center being built at the seaplane ramp.

Representatives of news media, business and military organizations saw models tested in the new tunnel—which is capable of operating at speeds up to five times that of sound.

B. F. Coggan, SD Division manager, Ralph Bayless, SD chief engineer, J. H. Famme, assistant chief engineer, and W. T. MacCarthy, wind tunnel manager, took part in the presentation.

Twenty-four Convair engineers and technicians are required to operate the tunnel and its elaborate data reduction equipment. They have been busy in calibrating the new facility for the past few months in anticipation of full-scale testing operations.

Known as a blow-down type tunnel, the unit utilizes a comparatively low power system to store energy over long periods of time for discharging in short, intermittent bursts at much higher energy levels. Test runs rarely exceed two minutes, with the average about 30 seconds.

Power used is enough to support a city of 1,400 persons, while the water needed for cooling (pumped from San Diego Bay) is enough to service 17 average homes for a period of one month.

Press Visits Atlas Base

Fifty reporters and photographers, first outsiders to view the Atlas missile at close quarters, were guests of Convair Astronautics March 11 for a special tour of the Sycamore Canyon test base.

The newsmen were carried to the top of a service tower containing an Atlas and allowed to descend via stairs, view the missile from numerous points. They also visited the blockhouse and transfer room as well as other facilities at the test stand area.

Appearing before the group at a pre-tour briefing were Mortimer Rosenbaum, chief engineer, and W. W. Withee, assistant chief engineer of Astro, and Col. Otto Glasser, former Atlas program director for the Air Force and now assistant deputy commander of the Ballistics Missile Division.

Similarities between the test base and installation at the Air Force's Missile Test Center in Florida were noted during the show.

For instance, mechanisms which hold the Atlas in place during static tests are identical to those used in launching the missile in Florida. The blockhouse at Sycamore is identical, but smaller, than its counterpart in Florida. Test instrumentation is identical in both installations.

Information about the Atlas' power plants, too, was released for the first time. The Atlas is propelled by a cluster of liquid propellant rocket engines, the most powerful in the free world to enter flight test and production. Directional stability is maintained by swivelling the engines. Small auxiliary power plants control roll.

SANDERS NOW CHIEF OF PALMDALE INSPECTION

J. D. Sanders has been named chief of inspection department, Convair Palmdale, replacing R. B. Kalanquin, who has returned to San Diego Plant 2. Stepping up to Sanders' former post of general supervisor, inspection, is H. L. Anderson.

BLDGS. 5, 51 MOVES SLATED IN APRIL

(Continued from Page 1)

ings, although about 1,200 will be located in Bldg. 4 during the work.

Interior work starts around May 1. Completion is now slated for June of 1959 or slightly less than 14 months for the total project.

Bldg. 5 portions of the project begin first with the last phase to start shortly after the first of the year. Work on Bldg. 51 begins in early August and runs into June of next year. Personnel, in most cases, will be moved about two weeks prior to start of work in their respective areas.

First steps in the program were taken March 3 when contractors began tearing out the wall between the two buildings in the experimental factory. A concrete block wall is being erected with completion set for late this month. Work starts March 28 on projects in the "hi bay" area of experimental.

On April 11 moving contractors will erect an outside portable elevator on the north wall of Bldg. 5 to handle moving of desks, etc., during the program.

Astro Plant Phone Number CY 8-4141

Telephone number of the new Astronautics Division plant is CY-8-4141.

Callers from either Plant 1 or 2 must first dial 9 to get an outside line, after which they dial the full prefix and number. Those calling the Sycamore Canyon base (CY-8-8181) from either SD plant also must first obtain an outside line.

★ Convairiety ★

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Antelope Valley Editorial Offices, Room 31, Bldg. 301B, Palmdale, ext. 337. Staff: Betty Lou Nash.

Record Crowd Attends March 12 Style Show

Convair models, displaying the newest in spring fashions, stepped "Through the Looking Glass" before an overflow audience (nearly 1,000) of Convair ladies and their guests at the annual CRA Spring Fashion Show March 12 in the Palm Room of the Grant Hotel.

The colorful setting, designed by Mark Saunders (Dept. 3), was a fairyland garden for Alice in Wonderland (Kathy Williams, daughter of R. M. Williams, Dept. 310); the Mad Hatter (Stephen Conley, son of Sybil Conley, Dept. 200); White Rabbit Herald (Andy Millspaugh, son of Jean Millspaugh, Dept. 600-3); Tweedledee and Tweedledum, portrayed by Tommy Balestrari (son of Jody Balestrari, Dept. 2-9), and Steven Sharp (son of S. R. Sharp, Dept. 3-1).

Edith Antelline, charm school director, coordinated and commentated the show. Pauline Gleason Leib was at the organ. Fashions were by Stevenson's of La Jolla, furs by Graf's, hair styling by Leonard of London.

Hostesses were Helen Pemberton, Grace Wright, Geneva Pogorel, Evelyn Mitchell and Elta Frisbee, CRA Women's Council; and Evelyn Anderson, Norma Goodman, Sharalyn Heeren, Frances Hellyer and Ruth Wainwright, CRA Women's Auxiliary.

Door prizes were merchandise certificates from CRA and Stevenson's department store.

Turboprop 'Circles' World Ten Times

Operation Hourglass, a 1,000-hour flight marathon involving a military version (YC-131C) of the Convair-Liner 340 equipped with new turboprop engines, (**Convairiety**, Jan. 22, 1958) has been completed.

In just 84 days the turboprop powered Convair made 649 flights, touched down in 77 cities in 32 states, flew 300,000 miles (10 times around the world) and averaged 360 mph cruise speed.

Engines and propellers used in the flight have been torn down for inspection. They will be reassembled and re-installed in the aircraft which will then conduct an around-the-country flight demonstration tour.

TWO PLAYING ROLES IN LITTLE THEATERS

Gene Norton of Astronautics engineering and Alyce W. Martin, Astro industrial relations, have roles in current productions of local community theater groups. Norton will be seen in "Private Lives," opening today (March 19) at the Coronado Playhouse and Mrs. Martin will have a part in "The Desk Set," starting April 8 at the Old Globe Theater.

SD Trio Attending Safety Conference

Three Convair San Diego men are in Santa Barbara today (March 19) for a joint Air Force-Industry safety meeting on prevention of fire and explosion in aircraft.

W. P. Easley, design specialist, J. B. Hurt, propulsion group engineer, and R. R. Romanowich, senior design engineer, are attending from Convair SD.

Similar safety meetings are held every two months.

TV Tour Offered At AIEE Meeting

Convair SD and Astro folk are invited to tour KFSD-TV channel 10 facilities and hear Richard Bailey, studio engineer, explain studio operation at the March 27 meeting of the AIEE, electronics technical division.

The 7:30 p.m. meeting will be held at the KFSD channel 10 station located on Hwy. 94 at 47th St.

'Roving' Astro Nurses Administer First Aid to Patients on the Job

Astronautics Division at some remote points is bringing first aid to the patient (follow-up treatment for minor ills), rather than subject the patients to bus trips to a first aid station.

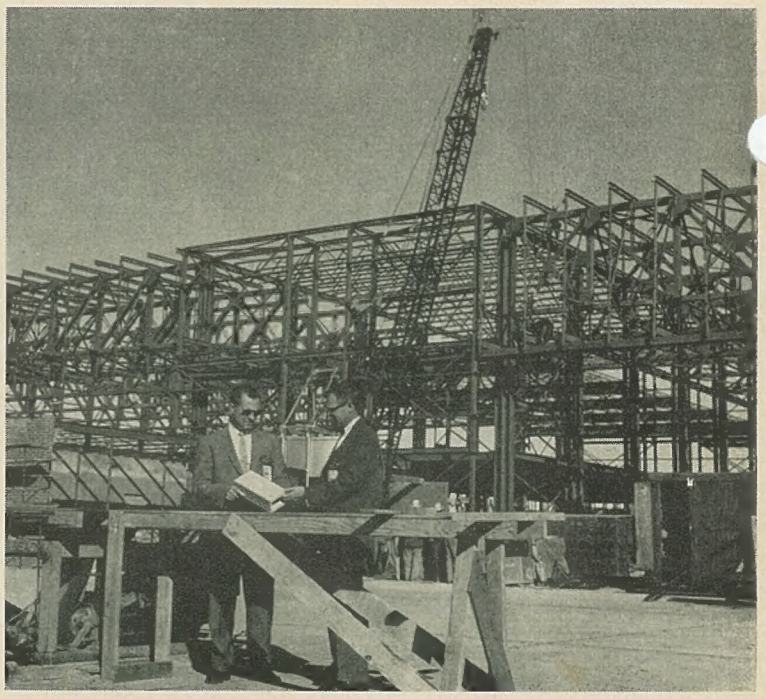
The new system was tried out successfully at Sycamore Canyon where the medical center is about a mile from the test stands. Previously, because of the time involved in making the trip by bus, patients sometimes neglected to report for new dressings for cuts, abrasions, etc.

"Since we started the system of 'roving nurses' at Sycamore we have a far closer check on patients," Dr. James Ryan, Astro chief plant physician, said.

Nurses, carrying sufficient medical supplies with them, visit each test stand at least once a shift. They keep files on those requiring attention and either have the patients paged by public address system, or go direct to the individual on the job.

"This permits us to greatly reduce any chances of infection," Dr. Ryan continued.

In addition to Sycamore, nurses are currently visiting certain warehouses and shipping centers on a temporary basis. This probably will be dropped when the activities move into the new Astro plant, though the practice is likely to continue at Sycamore.



NEW FACILITY—M. C. Terry, Dept. 313 project manager, and J. S. Boaz, GFE supervisor, inspect construction of new facility under way at Holloman AFB. Occupancy is expected by fall. Building will be capable of hangaring ten F-106s and will provide office space for Convair, Hughes, and AF personnel.

UNUSUAL POSE—Known more for his dashing play on world's jai alai courts, Jose Garate also cuts a fine figure as a family man with wife and daughter, both named Virginia. Garate retired at Tijuana Fronton in 1953, has been with Convair SD (Dept. 14) almost a year.

The 'Old Pro'

Garate, One-Time Jai Alai Great, Now a One-Year Man at Convair

"Garate," international jai alai star, Olympic champion and venerable "old pro" to scores of local fans, soon winds up his first year as a member of Convair San Diego's shipping department.

In 1953 Garate put aside his pelota and cesta for the last time after more than three decades of performing for audiences around the world. His last seven years were spent at the Tijuana Fronton.

Although fans considered Garate "old" as players go, few knew he observed his 46th birthday while playing at Tijuana. (Jai alai players normally reach their peak in their early 20s, few play after passing 30.)

His American-born wife and 11-year-old daughter, both named Virginia, still laugh at a weekly ritual they performed during Garate's last seasons.

"We tinted the gray in his hair so he looked like the other players," Mrs. Garate said.

Despite his age, Garate was always considered one of the best players ever to appear at Tijuana.

Born 51 years ago at San Sebastian, Spain, he was christened Jose A. Garate. He adopted his last name as his playing name and learned the game from his father and older brother, both professional players. Garate soon excelled in his country's number one sport. At 17 he won the Spanish amateur title and was selected to play in the 1924 Olympics at Paris. He won the singles event and the only gold medal ever presented for jai alai singles, since the sport was included in the Olympics only that once.

Only 18, Garate signed his first professional contract to appear in Miami, Fla. He played for a number of years there, helping to introduce the fast-growing sport in the only state in the U.S. where it is played today.

Garate then toured the world, playing in most of the Southern American countries, Spain, the Philippines, China and Mexico. He was in China when the Japanese invaded and closed the frontons.

Honors were heaped on Garate through the years. He was "Numero Uno," the American equivalent of a major league batting champion, in 1934-35 in Shanghai and in 1944-45 in Miami. He was also a member of the winning doubles team at Tijuana in 1948.

Through the years Garate has met many celebrities. He knows Jack Dempsey well, worked out frequently with General "Hap" Arnold, and still gets Christmas cards from Ernest Hemingway. He calls scores of movie stars by their first names.

The former "pelotari" considers the jai alai played in Cuba and Florida as the best in the world. He also recalls players there are the highest paid in the world, earning around $1,600 a month.

"There are few students of jai alai left in the world," Garate said. "To play the game as it is intended you must study it day and night, practice any time you can and stay in the peak of physical condition."

Bill Harse Flying F-106A Spin Tests

The first in a series of F-106A spin tests was conducted March 3 at Convair Edwards with pilot Bill Harse putting the plane through stall and deployment of chute maneuvers.

The test plane is equipped with a spin parachute housed in a new-type rigging on the exterior of the vertical tail section.

Pomona Hosts Conference on 'Bumblebee'

Electronic and guided missile engineers working on development of missile guidance and fire control systems for the Navy's "Bumblebee" group of missiles attended a two-day conference at Convair Pomona last month.

Engineers representing the various contractors meet periodically to total results of various phases of "Bumblebee" project.

The "Bumblebee" program includes a family of missiles in development and in production for the U. S. Navy Bureau of Ordnance. The Applied Physics Laboratory of Johns Hopkins University is technical director of the development program and sponsors their series of conferences. Included in the "Bumblebee" family of missiles are the Terrier and Tartar surface-to-air missiles being developed and produced by Convair-Pomona, the Navy's Bureau of Ornance, and the Applied Physics Laboratory.

Convair has been involved in this program since 1945. The research and development phases of this program have been important especially in the evolution of new techniques and methods of guidance for the missiles.

Agencies represented at the conference included: Convair, Applied Physics Laboratory, Johns Hopkins University, U. S. Navy Bureau of Ordnance, Aerojet, American Machine and Foundry, Baird-Atomic, Bell Telephone Labs, Bendix, Boeing, Collins Radio, Defense Research Lab, University of Texas, Douglas, Firestone, Farnsworth Electronics, General Electric, Glenn L. Martin, Goodyear, Kearfott, Linfield Research Institute, Librascope, Lockheed, McDonnell, New Mexico A & M, Office of Naval Research, RCA, Raytheon, Ramo-Wooldridge, Republic Aviation, Sperry Gyroscope, University of

SD Chief Physician To Get Fellowship

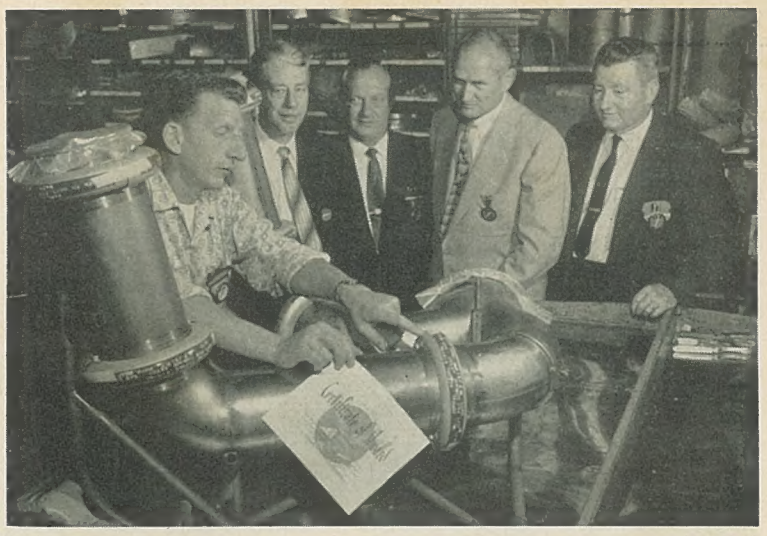
Dr. Francis M Amaral, chief physician for Covair San Diego, will be honored April 23 at Atlantic City where he is issued a ertificate of ellowship in he Industrial Iedical Association.

Dr. Amaral

News of Dr. maral's selection as a Fellow the Association on came early is month from r. Jerome W. illing, president. He was ed for "outstanding work e field of industrial medici

A graduate () of the Boston Universitydical School, Dr. Amaral j Convair in 1942 as a staffician. He became chief phy in 1945.

SACK STYLES—A number of SD girls celebranise Day" recently, blossoming out in controversial "sack-rom left: Lois Rodenheimer, Eupha Rockwell, Shirley Pi Dept. 6; Marge Sabin, SD Dept. 4; Ruth Hayward, SD



THAT'S IT—Idea for metal protective cover for Omega joints won largest Employee Suggestion award ($1,612) ever presented by Convair Astronautics for G. E. Helminski (Dept. 758), left. He shows his idea to, from left, J. P. Hopman, factory manager; H. J. Hawthorne, foreman; L. L. Tuttle, superintendent; and Lee Ely, general foreman.

Astro Man's $1,612 Idea Sets New ES Record For Division

An idea for eliminating damage to Atlas missile components during production has earned for G. E. Helminski the largest Employee Suggestion award ever made by Astronautics and the second largest ever paid at San Diego.

Helminski's suggestion will save Astronautics an estimated $16,121. Under terms of the new program he receives 10 per cent of this amount, or $1,612. One-half of this payment was made six months ago with the final installment coming early this month.

A Dept. 758 leadman, Helminski was disturbed by the constant damage and resulting rejection of Omega joints on Atlas fuel and LOX assemblies. This thin material, despite careful handling, often suffered dings, scratches and other damage, forcing rejection.

Helminski came up with an idea of a metal protective covering which could be snapped over these joints until final assembly, offering protection and guarding from dents.

"Since we started using the idea, not one assembly has been rejected for damage in the areas protected by the coverings," H. J. Hawthorne, Dept. 758 foreman, reported.

TO DELIVER PAPER

J. R. Nelson of the physics section, Convair SD, next week will deliver a paper before an American Physical Society meeting in Chicago.

HOT DRIVER—Nine-year-old Danny McKnight, son of Convair Pomona's R. L. McKnight (Dept. 25), poses in his quarter-midget racing car with the 28 trophies he has won in less than 10 months of racing.

Speedy Midget

Veteran Race Driver at Age 9 Sets New Track Speed Record

Danny McKnight has a problem — where to put all of his rapidly accumulating racing trophies.

Danny, nine-year-old son of Convair Pomona's R. L. McKnight (Dept. 25), has been competing in quarter-midget races only 10 months, but he has already won 28 trophies. His latest is for setting a new track speed record at the Naval Ordnance Test Station, China Lake.

He has also won 11 main events, four semi-main events, two consolation trophies, three speed dashes, three trophy dashes, three fast time trophies and one grand trophy dash.

Though Danny is a "natural" driver and a keen competitor, he owes much of his success to his father, who built his car and serves as his "pit crew."

And if heredity has any bearing, Danny owes even more to his father. McKnight is a professional boat racer with a career extending over 11 years. He still holds one National Class F record and two Canadian Class A and B records. He is a former commodore of the Niagara Frontier Boat Racing Association, and was elected to the Courier Express Boating Hall of Fame. McKnight also served as president of the American Miniature Race Car Association of Wilmington, Del.

McKnight not only built Danny's car, but he built the engine as well. Starting with a two-horsepower Continental "lawnmower" engine, he discarded everything except the engine block and flywheel and built the engine up with special racing parts. The engine is now rated at about four horsepower.

THREE DECADES—I. M. Laddon, longtime Consolidated and Convair executive and more recently member of Board of Directors of General Dynamics Corporation, received 30-year pin recently from Frank Pace, Dynamics president.

FETED—Leo Niemet of SD Dept. 102 (cutting cake) was honor guest at party on his 30th anniversary with Convair. Others are I. E. Amer, H. D. Cromartie, R. E. Wiedner, A. R. Johnson, Alfred Stieringer, R. C. Beezley and W. V. Ohland.

Log Book Entries

Service Emblems

SAN DIEGO

The following service emblems are due during the period March 16 through March 31:

Twenty-year: Dept. 97-6, J. R. Brown; Dept. 180-0, S. G. Franc; Dept. 266, F. H. Dernbach.

Fifteen-year: Dept. 12-0, L. C. Brandvig; Dept. 25, C. V. Meyer; Dept 31, B. E. Landgraf; Dept. 130, P. A. Chapman; Dept. 192, F. B. Wagner; Dept. 197, F. L. Brownlee Jr.; Dept. 204, G. T. Adams; Dept. 218, J. A. Carrera, Thea O. Peacock.

Dept. 230, D. V. Bailey, Lavern Drinkard; Dept. 233, P. E. Liggett; Dept. 266, H. A. Farnsworth; Dept. 280, H. J. Cronk, W. F. Mogan; Dept. 292, G. W. Carr, S. A. Currie; Dept. 400, J. D. Melton; Dept. 406, G. R. Williams.

Ten-year: Dept. 4, N. F. Fitzsimmons, R. D. Tuttle; Dept. 6, G. E. Boldman; Dept. 14, Agnes T. King; Dept. 31, H. A. Addleson, T. J. Bentley, C. W. Brock, Mary L. Pena, L. J. Raymond, R. S. Reithmayer.

Dept. 101, C. F. Brooke; Dept. 116, Bernice M. Falkenthal; Dept. 180, Fred Robinson, F. P. Wooten; Dept. 192, Sylvia T. Ladd, Dorothy Mitrovich; Dept. 216, Nola M. Owen.

Dept. 231, A. E. Vanderwyst; Dept. 232, M. C. Estevane; Dept. 233, R. C. Taylor; Dept. 267, Vardie Taylor; Dept. 280, F. R. Castillo; Dept. 288, Lova C. Heck; Dept. 292, Martha B. Williams; Dept. 600, R. S. Hyatt.

ASTRONAUTICS

Fifteen-year: Dept. 181-0, R. W. Kleinhans; Dept. 573-3, E. S. Budzinski; Dept. 578-1, Isaac Polhamus Jr.

Ten-year: Dept. 220-2, Anna R. Lassen; Dept. 451-0, A. K. Grosse; Dept. 521-2, Esther A. Jordan; Dept. 547-8, P. M. Ohlinger; Dept. 573-6, D. A. Averill; Dept. 756-3, L. G. Prine; Dept. 771, M. L. Breckenridge, J. F. Sullivan; Dept. 772-1, Edith H. Bliss.

Promotions

SAN DIEGO

Promotions and transfers to supervision effective March 3:

Dept. 3, Industrial Relations: To engineering personnel administrator, M. C. Curtis.

Dept. 6, Engineering: To asst. design group engineer, J. A. Campbell. To chief liaison engineer, R. D. Chesler.

Dept. 15, Customer Service: To service parts provisioning asst. supervisor, L. Rodrigues Jr.

Dept. 31, Experimental: To asst. foreman, V. L. DuPont.

Dept. 400, Tooling: To tooling asst. supervisor, N. L. Smith.

ASTRONAUTICS

Dept. 130, Industrial Relations: To fire chief, A. C. Anderson. To guard chief, J. M. Mernik. To fire lieutenant, G. C. Brown, A. A. Matousek, C. E. Miller, C. P. Seifert, J. P. White. To guard lieutenant, J. B. Hill, G. G. Millard, A. M. Young.

Dept. 131-1, Industrial Security–Sycamore: To security chief, Sycamore, H. W. Gillespie. To fire lieutenant, J. W. Meyers.

Dept. 183, Systems & Procedures: To office services asst. supervisor, J. R. Nelson Jr.

Dept. 250, Plant Engineering: To general foreman, T. D. Delk Jr. To asst. foreman, Group V, K. D. Taylor.

Dept. 280, Inspection: To inspection asst. supervisor, Group V, E. H. Lawton.

Dept. 322, Service Publications: To engineering publications asst. supervisor, R. C. Fay.

Dept. 451, Jigs & Fixtures: To asst. foreman, Group V, E. B. Stevens.

Dept. 460, Tool Service Administration: To asst. foreman, Group I, T. G. Graves.

Dept. 551, Engineering–Electronics Function: To asst. electronics group engineer, H. M. Ikerd.

Dept. 573, Convair Operations–Sycamore: To chief of operations support–Sycamore, E. J. Huntsman.

PATRICK AFMTC

Dept. 571, Convair Operations–AFMTC: To asst. foreman, Group V, G. C. Butler, K. D. Clopton. To asst. foreman receiving & stores, G. L. Dahle.

Personals

SAN DIEGO

I would like to express my sincere appreciation to all my Convair friends and particularly to C. F. McCabe, G. G. Green, M. J. Wells, J. G. Hawkins, J. L. Wainwright, and B. O. Isham for the wonderful farewell party given at my retirement.

Etienne Dormoy, Dept. 6

* * *

My grateful appreciation is extended to Dept. 6, propulsion design group; Dept. 280; and to my other Convair friends for the cards and flowers received at the death of my mother.

G. T. Robinson Jr., Dept. 6

Births

SAN DIEGO

ARREGUI — Son, Adrian Edward, 8 lbs., 1 oz., born Feb. 20 to Mr. and Mrs. E. F. Arregui, Dept. 603.

GOTTSCHALL — Son, Eric Grant, 5 lbs., 14 oz., born March 1 to Mr. and Mrs. R. K. Gottschall, Dept. 1-41.

MUNZ—Daughter, Karla Lynn, 7 lbs., 14 oz., born Feb. 26 to Mr. and Mrs. K. F. Munz, Dept. 34-2.

TERRELL—Son, Michael M., 6 lbs., 5 oz., born March 2 to Mr. and Mrs. Acie Terrell, Dept. 14-5.

THOMAS—Son, Steven James, 6 lbs., 8¾ oz., born March 2 to Mr. and Mrs. M. G. Thomas, Dept. 93-2.

WOODS—Son, Richard Dean, 7 lbs., 15 oz., born March 1 to Mr. and Mrs. H. J. Woods, Dept. 93-2.

ASTRONAUTICS

GRAHAM—Son, Willial C. Jr., 7 lbs., 1 oz., born Jan. 22 to Mr. and Mrs. W. C. Graham, Dept. 214-3.

THOMPSON—Son, Kenneth Russell, 7 lbs., 7 oz., born Feb. 18 to Mr. and Mrs. George O. Thompson, Dept. 756-2.

Deaths

SAN DIEGO

FOSTER—William Joseph, Dept. 31. Died March 11. Survived by wife, Loretta, and one son.

CRA Alters Policy On Junior Baseball For Coming Season

Convair San Diego will concentrate its junior baseball program this year on boys below and above the age for Little League competition, Commissioner Pete Beyrer said this week.

"Each neighborhood has several Little League teams," Beyrer said. "We feel our Convair sons in this age group have ample opportunity to play, while those in other age groups are being overlooked."

CRA this year will continue its program for youngsters 8, 9, and 10 years of age as training for future Little League play. Competition will be staged once each week. In addition, one team will be formed among boys 13 and 14 who are too old for Little League.

Organizational meeting for these two age groups has been set for 7 p.m. April 1 at CRA Clubhouse. Registration of all players will take place at that time. A baseball film will be shown.

100 Square Dancers To Invade San Diego

At least 100 square dancers from the north will arrive in San Diego by bus and private auto this weekend to join Convair SD Hoedowners at the fifth annual all-Convair Square Dance Jamboree Saturday (March 22).

Final arrangements have been completed for the dance festival in the American Legion Hall on Fairmount Ave., said Marty Stutz and P. E. Liggett, CRA commissioners.

Host groups from the SD club will meet the out-of-town visitors in Mission Valley to guide them to the gathering place. Nine squares are expected from Convair Pomona and three from Antelope Valley.

Women Cagers Win Season's Last Game

Convair women cagers tripped the Toe Stubbers, 40-19, to win their last gane in the City League.

Entering the Navy Invitational Tournament fo' the first time Convair girls tok their tilt with Marine Air Staion, El Toro, 47-15, but were elminated by tourney-winners, Lng Beach Blues, 49-20.

Plant Championship Trap Shoot Slated

Convair SD plant championship trap shot to determine teams to reprent Convair in coming competive matches is set for April 13, said Jack Swank, CRA Gun Club commissioner.

All birds thwn in the contests will be rnished free to Convair shoots and their immediate famil. For information contact Sank, ext. 1161, Plant 1.

DRESSY—W A. P. "Speed" Wilson arrived he after a tour in Belgrade teg JAT pilots, he was dressed to kill." Note that hat and ted toes. At right is W. B. well, manager of production t.

LONG ROAD — Apprenticeship is over for Raul Z. Gutierrez (SD Dept. 403), left. He is graduate tool and die maker now. At right, A. W. Morgan, SD assistant division manager-operations, presents certificate.

GOLF TEAM WINS OPENING ROUND

Convair San Diego's entry in the San Diego Industrial Recreation Council golf league swept by Narmco, 29-19, in the opening round of play March 9.

League play involving six local industrial teams continues through June. Convair takes on Telco Sunday (March 23) and meets Ryan April 13. Final rounds will be against Rohr April 27 and NEL June 8.

Russ Davis captains the Convair team made up of Gerry Cox, Ted Anderson, Harold Parnell, D. Ramirez, Bill Glithero, Ralph Long and Emmett Williams. Alternates are Ralph Montgomery, Vern Walsh, Walt Rye and Dale Tyler.

Annual Hobby Show Set For May 10-11

The annual hobby show sponsored by the San Diego Industrial Recreation Council is scheduled for May 10-11 in the Electric Bldg., Balboa Park.

All Convair Astro and San Diego Division employees and their immediate families are eligible to exhibit their hobbies. There is no entry fee.

Entry blanks may be obtained from Dan Whorton, ext. 665, Plant 1.

Astro Girls Sought For Softball Team

Last call is out to all Convair Astro girls interested in forming a softball team.

If enough feminine ball players respond, an Astro team will be entered this spring in the City Industrial Recreation League, said Joe Frivaldsky of Astronautics CRA.

All girls interested are urged to contact Leona Gatzemeier (Dept. 772), second shift, ext. 604, or Frivaldsky, ext. 1202, Plant 1.

CRA Ups the Ante in Anglers Contest

SD fishermen will divide $50 in merchandise prizes each month beginning April 1, Commissioner Dale Cromartie reported this week.

February winners, all with barracuda, were Frank Mundel, John and Glenn Grantham.

Cromartie said the monthly awards will be split six ways in future. Catches must be registered with CRA to be eligible.

CONVAIR SD WIFE WRITES BOAT BOOK

Just released is "The Sailorette," a boating handbook written primarily for women by Fran Westfall, wife of V. B. Westfall (SD-Dept. 129). Bert Snellings of Dept. 190 drew the nautical pen and ink illustrations.

Mr. and Mrs. Westfall and their two children have made their home aboard boats for the last four years. Their present floating "house" is tied up at the Silver Gate Yacht Club, Shelter Island.

They are looking forward to delivery this spring of a new boat-home, a 35-ft. cruising cutter commissioned in Denmark from plans of an 1800 trading vessel, on which they plan to make a world voyage within the next couple of years.

Astro Group Holds Year's First Picnic

Leading off with the first department picnic of the season, some 150 Astro proof planning (Dept. 771-1) employees and their families enjoyed a full day of fun at El Monte Park, Sunday (March 9).

Highlight of the day was a softball game between the "Daze" and "Knights" teams. Len Toms pitched the Knights to a 17-15 victory.

Bob Farrar was chairman.

Grant and Munson Leading in Chess

Convair chess players swept the first Industrial Recreation Council tourney to take the three top standings at the close of the three-week play.

Newton Grant (Dept. 6) took first in the field of competitors from Rohr, Gasco, Convair SD and Astro plants. A. E. Munson of Astro Dept. 500, CRA chess commissioner, placed second. Third was R. R. Whittemore, also of Astro Dept. 500.

Astro's Loris Parker Weds Rod Luscomb III

Loris Parker, Astro Dept. 521-2, and Rodney E. Luscomb III, son of Dorothy Luscomb Platner, Dept. 4-0 SD, were married March 12 in the chapel at the U. S. Naval Hospital, San Diego. A reception followed in El Cortez Hotel.

The groom is a U. S. Naval cadet stationed at Pensacola, Fla. Prior to entering military service he was in Astro service publications.

March 26 Chosen For Another Skate Night

Roller skaters at Convair SD and Astro responded so enthusiastically to last month's special skate party that a repeat performance has been scheduled for next Wednesday (March 26).

Skateland Rink, Front and G Sts., will admit Convair skaters at reduced rates with ID cards or tickets available at employee services, Bldg. 32, Plant 1. Skating starts at 7:30 p.m.

TOASTMASTERS NAME TWO CONVAIR MEN

W. H. Lakin, SD dynamics lab, was elected president and L. T. Cheung, Astro engineering, administrative vice president by the North Shore 66 Toastmasters early this month.

Stephen Field, 11, Breaks 25 Clay Pigeons For Perfect Score in SD Trap Shoot

An 11-year-old matched the adults in marksmanship to bag a perfect 25 out of 25 birds at the monthly trap event of the Convair SD Gun Club.

Stephen Field, son of J. K. Field, SD chief of employee services, stood shoulder-to-shoulder with the five adult perfect scorers, Jay Cushman, Frank Kemper, Richard Tarver, Jack Swank, and Mrs. John Hartwell.

Leo Bernitz won Class A of the March skeet event and W. E. Rickman took Class B.

R. Briggs topped the .22 rifle match with his score of 380-13x. Robert Saether was second with 374-13x, and Joe Williamson, third, 366-9x.

Bob Saether, Gary Foster, and Dennis Zimmerman stood first, second, and third in the junior rifle division of 16 entries.

Junior sharpshooters try their luck the first and third Saturdays of each month, 9 a.m. at the Gillespie Field range.

Next CRA Gun Club event is a registered trap shoot March 30 at 10 a.m.

Over 500 See Horse Show

Over 500 spectators watched Convair SD riders perform March 9 at the Mission Valley Polo Grounds in the largest Fun Show ever to open a CRA riding season.

Horsemen representing all parts of SD county were among the 150 entries in the scheduled events, including hunter class, English and Western style, and gymkhana, said C. L. Pogorel, CRA co-commissioner.

Convair winners were Vince Paul, placing fourth in the keyhole and flag races of the novelty events; and Bill Eide, third in flag race and fifth in keyhole race.

Judge was Jackie Danzell of the Peacock Ranch at Alpine.

Next CRA horse show will be in April. Anyone interested in Riding Club membership is asked to call Elaine Madsen, ext. 1134, Plant 1.

TICKETS TO ANNUAL CLUB DINNER DANCE LIMITED TO 500

Advance ticket sales indicate that this year's dinner-dance sponsored by the SD Fishing and Boating Clubs will surpass last year's 400 attendance total.

The annual affair, (this is the fourth) has gained steadily in popularity. There is a good chance the clubs may have a sell-out this year. Tickets must be limited to 500, the hall's capacity.

Chairman Joe Aguilar predicted that this year's menu will be the best yet. Tickets ($1.50 for adults; 50 cents for children) are on sale at employee services or through a number of individual ticket sellers. Dale Marks suggested that those who find it inconvenient to call at employee services may phone ext. 1245 for information on ticket sellers in their localities.

Dinner is at 6:30 p.m. March 22 in the Veterans War Memorial Building, Park and Upas, Balboa Park. Dancing begins at 8 p.m. soon after the drawing to determine door prize winners.

SD and Astro Team To Compete in L.A. Champions Tourney

Ten men wearing the colors of CRA at Convair San Diego and Astronautics journey to Los Angeles this weekend (March 22-23) to compete in the tournament of champions staged by the Southern California Municipal Athletic Federation.

Convair's victorious City League team is making the trek. Finals in the tournament are slated for March 29-30 following opening games this weekend. Team members are Bob Ballard, Willie Pitts, Harry Wilson, Jim Poole, Fred Armer, Bob Miller, Hank Fuller, Larry Griffith, Bob Barnett and Percy Gilbert.

The Convair Eagles wound up the current season this month by winning a 42-41 overtime victory over Rohr and outright possession of the Industrial "A" League title. The Eagles copped the first half, then were defeated by Rohr in the second round play-off.

Rockhounds Combine For Picacho Jaunt

Despite the weather man's prediction for cloudiness and possible rain, 30 ardent rockhounds from Convair, Rohr and Ryan enjoyed perfect weather on a combined field trip to Picacho, March 8-9.

A trip to Crystal Hill, near Quartzsite, Ariz., is in prospect for SD rockhounds in mid-April, Dan Whorton, CRA commissioner, said.

TICKETS AVAILABLE TO HOME SHOW

Complimentary tickets allowing employees to attend the San Diego Home Show March 21-30 at half price (75 cents) are available at employee services offices at both plants.

OFF TO BREAKFAST—Thirty horsemen of Convair SD Riding Club worked up hearty appetites early this month when Trailmaster Vince Paul led them on two-hour jaunt to Tecolote Canyon and back before breakfast. Riders are pictured here by Billie Dean Dawson, mirrored in rainwater pool. First trail ride ended at Palomar Stables, Mission Valley.

CRA Sports & Recreation Convairiety

TOP ANGLERS — These three SD fishermen won Southwest Anglers Association trophies for their catches during season. From left, Ed Newman, SD Dept. 6; J. R. King, Dept. 220 (Astro); Joseph Sopko, SD Dept. 25.

CRA Calendar

(Convair Recreation Association has some 40 activities in operation. For information call CRA headquarters, ext. 1245, Plant 1.)

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ARCHERY—Meeting tomorrow (March 20), CRA Clubhouse, 7:30 p.m.

ART CLUB—Meeting tonight (March 19), Spanish Village, Balboa Park, 8 p.m. Register for life drawing classes with Gil Crosthwaite, ext. 1245, Plant 1, after 1 p.m.

ASTRONOMY — Instruction classes first and third Friday nights, Gillespie Field. Call Keith Sears, ext. 2988, Plant 1.

FISHING—Annual fish fry and dance March 22, Veterans' War Memorial Bldg., Balboa Park, 6:30 p.m.

GOLF—Registration open for Yater Memorial Golf Tournament until March 28 by calling ext. 2989, Plant 1.

GUN CLUB—Registered trap shoot March 30 at Gillespie Field range, 10 a.m. For information call Jack Swank, ext. 1161, Plant 1.

ICE SKATING—Weekend trip to Big Bear, March 22-23.

MOVIES — Free CRA movies each Friday, 7 p.m., CRA Clubhouse. March 21—"The Mississippi Gambler." March 28—"Saddle Tramp."

Reduced-price movies each Friday night at Academy Theater, 3721 University Ave. March 21—"Tin Star" and "Devil's Hairpin." March 28—"Band of Angels" and "Bailout at 43,000."

Each Wednesday night at Abalee Theater, National City. March 19—"Invisible Boy." March 26—"Sad Sack" and "Quantez." Adults, 25c; children, 10c.

RADIO CLUB — Meeting tomorrow (March 20), 8 p.m., headquarters. Harbor Dr.

ROLLER SKATING — Skate party March 26, Skateland Rink. Cut-rate tickets at employee services, Bldg. 32, Plant 1.

SKIN DIVERS — Spearfishing trip to Todos Santos Island March 23.

SQUARE DANCING — All-Convair Jamboree March 22, American Legion Hall, Fairmount Ave.

SWIMMING — First family swim night at Mission Beach Plunge April 5, 7-9:30 p.m. Free tickets at employee services, both plants.

TABLE TENNIS — Monthly tournament March 25, CRA Clubhouse. Second shift, 1 p.m.; first shift, 6:30 p.m.

DIVERS QUALIFY FOR ISLAND MEET

Skin divers of Convair SD were assured a spot for a three-man team entry in the Regional Championship Meet at Catalina Island in May following their top standings in the recent Inter-City Spearfishing Meet.

Catches speared by two Delta Diver teams brought them second and third places in the March 9 contest sponsored by the SD Council Diving Association at Casa de Manana, La Jolla.

Tim McTaggart, Chuck Nicklin, and Bob Casebolt made up the Convair second-place team which bagged 10 lbs., 8 oz., total weight of sheepshead, bass, and cabezone. Third-place team of John Gapp, Bud Rogers, and Vern Fleet finished with 9 lbs.

Delta Divers will travel to Todos Santos Island this Sunday (March 23) for a day of spearfishing.

ASTRO MAN GIVES FENCING LESSONS

D. W. Reichenbacher of Astronautics industrial relations is directing classes in fencing, open to the public, Mondays and Wednesdays, 7 to 9 p.m., at Helix high school, La Mesa. Any interested Convair people may attend.

Golfers Filing Entries For Yater Memorial; Year's Top Medal Event

Reservations for starting times in the annual Yater Memorial Golf Tournament at San Diego are being taken beginning today (March 19).

Times may be reserved through Frank Pickard or Molly Dowell, ext. 2989, Plant 1. Entries close at 4 p.m. March 28. Rancho Santa Fe and Caliente courses will be used.

The Yater Memorial, major medal play event of the golf year, is 36 holes and will be played over two weekends, April 5-6 and 12-13. It is open to all Convair SD and Astronautics linksmen and linkswomen with established CRA handicaps. A $1 entry fee will be payable on the first tee, with funds going toward improving the prizes.

CRA Commissioner Frank Pickard said a field of more than 200 is expected. There will be prizes for both gross and net in each of four handicap divisions and in the women's division, not only for 36-hole totals but also for the best 18-hole scores. The overall low net winner takes the Yater Perpetual Trophy. Players are eligible to win only one prize, however.

Bill Bore of Dept. 292 is the defending champion. He won last year with a 36-hole net of 130.

Bulk of the players will be expected to play one 18-hole round each weekend. However, in special cases where a player will be out of town or otherwise unavailable, permission may be granted to play both rounds on a single weekend.

* * *

Results of the Astronautics "best nine" golf sweepstakes March 1-2 at Circle R links were:

0-14 handicap: Marvin Goodall, low gross 70; Morrie Baxter, net 60, Ray Demitrowicz, net 65.

15-19 handicap: Frank Cook, gross 76; Hank Crouthamel and R. Rendina, net 66s.

20 and up handicap: John Tannone, gross 84; Ben Schroeder and Phyllis Rehm, net 64s.

* * *

Following are prize winners in March 1-2 sweepstakes at Flying Hills:

0-13 handicap: Dan Ramirez, low gross, 70; Frank Applegate, C. R. Phillips, G. Hillis, net 70s.

14-17 handicap: Ken Sinclair, low gross, 80; Bob Wright, net 67; Norm Dahl, net 68; H. C. Vanburen, net 70.

18-22 handicap: Walt Alexander and Ed Kerfeld, gross 87s; Pat Wallman, net 66; F. W. Kelly, net 67.

23 and up handicap: J. Baker, low gross, 96; Lee Wohl and George Thiersch, net 72s.

Women's flight: Lela Fisher, gross 90.

18 Golfers Win Team Berths

Eighteen golfers have won berths outright and four others face play-offs in determining team positions on the Convair SD CRA golf team slated for inter-division competition, Commissioner Frank Pickard reported.

Each of the 75 players vying for berths played three 18-hole rounds. Four players and an alternate were selected in each of four classes on the basis of total scores.

Here are the team members of each class, with totals in parentheses. Last man of each class is the alternate:

Class "A": Ralph Long (229); Al Reiter (230); R. A. Dodson (232); Ron Heinrichs (233); and Dick Ransdell (237).

Class "B": Stan Sharp (250); Walt Rye (253); Jack Kelly (255); Glen Grantham (257); and Bill Jaynes (261).

Class "C": R. Z. Rivera (253); John Mellett (259); George Hasti (261); J. D. Burkhart (263); T. C. Craghead and Jake Moore tied with 266s.

Class "D": Guy Farr (279); A. N. Meziere (288); Everett Tate (292); Paul Richardson (292); Gene Pollpeter and Gary Kelly tied with 293s.

Play-offs between those deadlocked for the alternate positions were to have been played last weekend.

Nine Volleyball Teams Competing

Action in a nine-team CRA volleyball league at Convair San Diego starts tonight (March 19) in the Federal Building, Balboa Park.

Industrial Engineering (Astro) meets Computer Lab and Dept. 3 plays Dept. 406 at 7 p.m., while Manufacturing Control and Dept. 8, and Service Parts and Flight Test tangle at 8 p.m. Propulsion draws a bye this week.

The March 26 slate finds Propulsion meeting Dept. 3 and Manufacturing Control playing Service Parts at 7 p.m. Dept. 406 takes on Flight Test and Computer Lab plays Dept. 8 at 8 p.m.

Play continues on Wednesday nights through May 14. Dept. 8 is the defending league champion.

Artist Association Selects Officers

Sam Pasto (Dept. 6) was chosen first president of the Convair Artists Association at SD after March 5 election results. Pasto was grand prize winner of last winter's CRA art club exhibition.

Other officers selected in the reorganization of the group are Thomas Corcoran, vice president; Joyce Boyer, secretary; and Charles Kastriner, treasurer.

Regular meetings are scheduled every other Wednesday night, 8 p.m., in the Spanish Village, Balboa Park, with next meeting tonight (March 19). Anyone interested in signing for life drawing classes is asked to call Gil Crosthwaite, CRA commissioner, ext. 1245, Plant 1, after 1 p.m.

Score of 297 Wins First in .22 Meet

B. L. Broadway of Dept. 603 scored 297 to win the .22 caliber police course at the March 9 match of the Convair SD Pistol Club.

First in the expert class was Roy Groth of Dept. 25 with 284; sharpshooter class, C. L. Smith, Dept. 6, 268; and marksman, Norma Bishop, wife of Ash Bishop, CRA commissioner, with a score of 268.

Russ Oliver (Dept. 131-1) and Broadway came out first and second in the .45 caliber short national match.

Pushbutton Control Marks Terrier Missile Operations on Shipboard

BY JAMES COMBS JR.
(News Editor, Pomona)

The Terrier missile system used aboard the Navy's new guided missile cruisers, the USS Boston (CAG-1) and USS Canberra (CAG-2), is strong evidence of the arrival of the era of pushbutton warfare.

Almost without exception, every operation involving the Terrier from assignment of a target to firing of the missile is actuated by a button or switch.

Both ships can load and fire their Terriers at a rapid rate. To accomplish this feat—which is remarkable considering that the Terrier, with booster, is about 27 feet long and weighs approximately 2,760 lbs.—both ships are equipped with a complex, but highly efficient, maze of missile handling, storage and loading equipment.

Systems on both ships are essentially identical. Each ship has two missile batteries, and each battery is responsible for serving one twin-missile launcher. Each launcher is serviced by a magazine and a missile overhaul and servicing room.

As each Terrier is brought aboard during replenishment, it is mated with a booster and stored, ready for firing (except for wings and fins), in a "ready service ring" in the magazine. There are two ready service rings in each magazine, one for each arm of the two-missile launcher.

By merely pressing a button, any Terrier in the ring can be selected and brought into position for loading. After a missile has been selected, it is automatically removed from the ring and conveyed to the loading rail, where wings and fins are installed manually—the only non-automatic operation in the procedure.

Meanwhile the launcher is brought to a vertical position over the loading blast doors which are immediately over the loading rail. The doors open, and a "spanner rail"—an extension of the loading rail—comes up and makes positive contact with the rail on the launcher, giving the Terrier an unbroken track to travel over.

Another automatic device brings the Terrier up the loading rail onto the launcher, where it is positioned and secured. The spanner rail retracts, the blast doors close, and the missile is ready to be fired.

Though it sounds complicated —and is—the whole process from selection to firing takes only a few seconds.

Missilemen aboard ship, noting the similarity of the storage and loading system to a popular soft drink vending machine, call it the "coke machine."

Although each Terrier comes aboard ship ready for use, missiles are given periodic checks in the overhaul and servicing room. All components of the missile are checked simultaneously with "go-no go" type test equipment.

If everything is in working order, the test equipment shows a green light. If something is amiss, however, red lights pinpoint the trouble and the faulty component is removed and replaced.

After the check has been completed, the Terrier is returned to the magazine and stored again in the ready service ring.

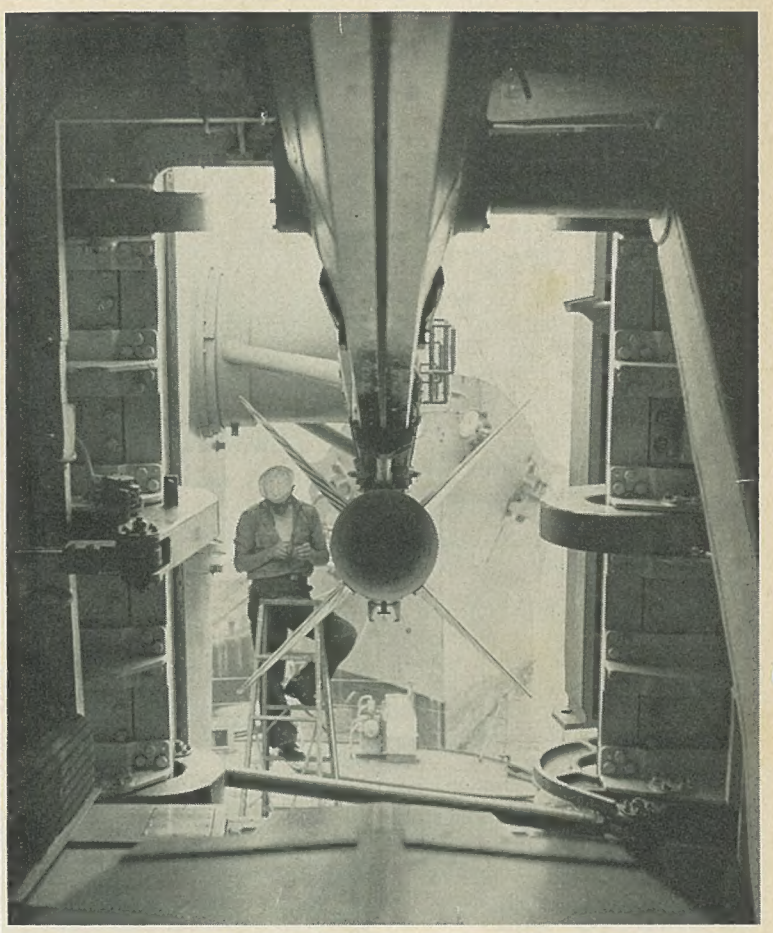
★ ★ ★

The USS Gyatt (DDG-1), world's first guided missile destroyer, uses a slightly different method for handling, storing and loading Terriers.

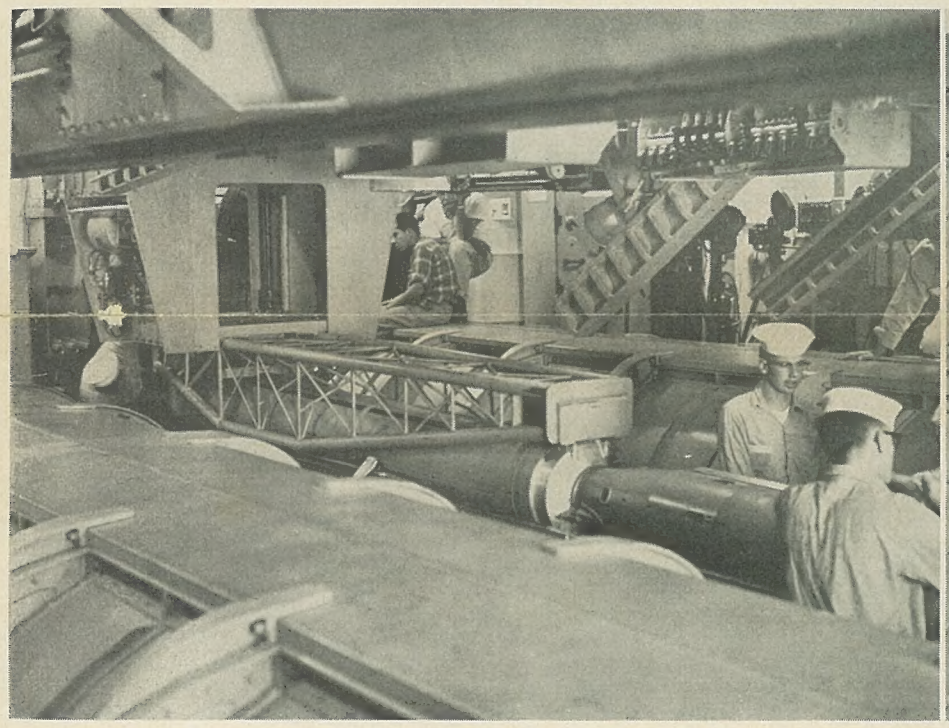
While space is at a premium aboard the Boston and Canberra, it is even more precious on the Gyatt. The ship is armed with only one twin missile launcher, and its missile room doubles as a magazine and an overhaul and servicing room.

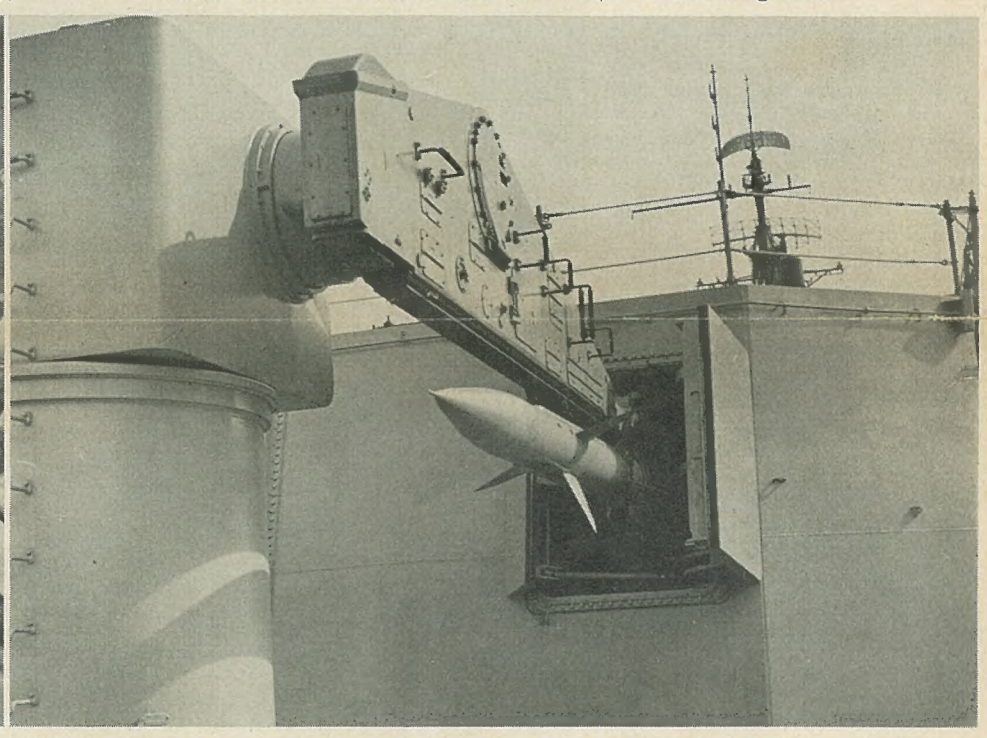
The Terriers—the Gyatt carries fewer than the cruisers—are stored horizontally, rather than vertically, in two drum-type revolving service rings. Horizontal overhead loading rails are used to remove the missiles from the magazine, and transport them through blast doors onto the launcher. The launcher is also positioned horizontally, rather than vertically, to receive the missiles for loading.

Space between the two "drums" is used as a checkout and repair area. As in the cruisers, Terriers are stored with boosters attached and are ready to be fired as soon as wings and fins are attached. Wings and fins are installed in a few seconds, while the missile is on the loading rail.



ON WAY OUT—Looking at aft end of Terrier, this is view as it leaves destroyer's missile room through blast doors and is loaded onto launcher.





ABOARD THE GYATT—At left is interior shot of missile room aboard USS Gyatt, first missile armed destroyer, showing Terrier missile and booster between magazines. At right, Terrier emerges from missile room through blast doors onto launcher. Note destroyer's loading system works horizontally. System used on cruisers (dubbed "coke machine") works vertically, with missiles coming straight up from below decks.

GROUND SCHOOL—Listening to SD Instructor L. J. Rice are Capt. H. K. Wimberley, J. B. Van Houten of Convair who will help in later instruction, Capt. T. R. Bogan, Maj. Glenn Crum and J. D. Eastham of Hughes.

Pilots Who Will Fly Phase Tests In F-106As Attend Ground School

Air Force pilots scheduled to perform phase testing on Convair's new F-106A interceptor in coming months will be students at a special school now in operation at San Diego.

The Air Force calls this two-week training period "operational indoctrination." Convair refers to it simply as pilot's ground school.

The first class began Feb. 12 and graduated Feb. 25. Another class wound up yesterday (March 18). About 100 students are expected to take part in the training between now and July.

Convair's production flight training section handles the program. P. H. Selby is the coordinator. Instructors, all Convair flight engineers, are L. J. Rice, J. B. Van Houten, C. L. Johnson and C. J. Falkenthal.

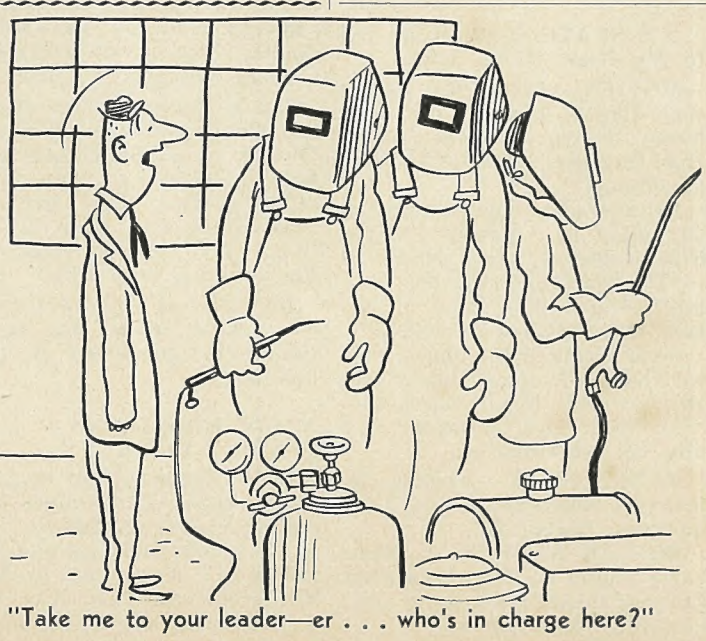
Pilots are given a thorough briefing on the aircraft, schooled in its capabilities and then given an opportunity to discuss flight problems with a Convair test pilot who appears late in the course.

Convair ran a similar course for the F-102A. Over 1,000 pilots received this training at one time or another.

Pomona Division Has Crystal Ball

Engineering at Convair Pomona should now be the envy of engineering departments the world over. The department now has a genuine, honest-to-goodness, crystal ball.

What's more, this one can talk—and type. For those who haven't guessed, Crystal Ball is a new clerk in engineering's auxiliary power supply group. She works for Mike Voytish.



"Take me to your leader—er . . . who's in charge here?"

Convair Writers Score With 126 Technical Magazine Articles

During 1957 Convair sparetime authors produced 126 articles which were published in technical or trade magazines.

The writers were compensated ($150 an article) from the Convair "writing award fund" designed to encourage publication of technical papers. The payment is in lieu of compensation which might otherwise be made by the magazines accepting the articles.

San Diego Division writers were the most prolific, turning in 70 articles which ultimately were published. FW Division was next with 32, followed by Astronautics with 15 published articles. General Office writers produced five, Pomona Division three and Daingerfield one.

Most prolific and successful individual writer was Martin Blum of Astronautics whose by-line appeared four times.

C. L. Hibert of SD Division scored with three articles as did Jeff Sutton, also of SD.

A respectable number had two published during the year, among them R. B. Hurley of Pomona Division and Chester May of Fort Worth. The latter wrote two in Spanish for a Latin American publication.

The Convair "writing award fund" was established in mid-1956. In the latter half of that year 41 articles were accepted for publication.

Subject matter is restricted to material of specific interest within the aviation industry.

Writers who have articles in mind should consult division public relations offices on procedure. Manuscripts must be submitted through Convair.